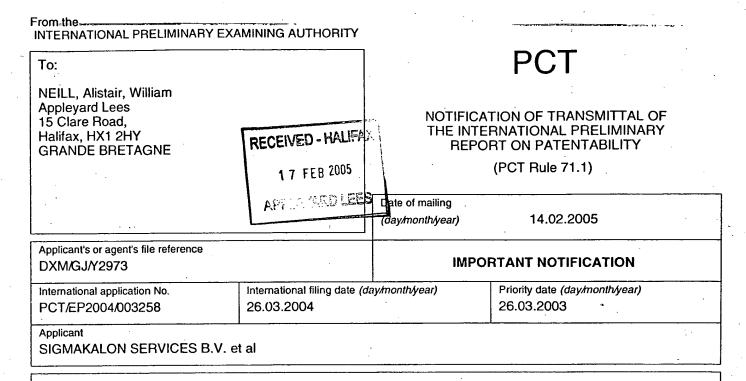
### PATENT COOPERATION TREATY



- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

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### PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference DXM/GJ/Y2973	FOR FURTHER ACTION	See Form PCT/IPEA/416										
International application No. PCT/EP2004/003258	International filing date (day)	month/year)	Priority date (day/month/year) 26.03.2003									
International Patent Classification (IPC) or national classification and IPC C09D183/10												
Applicant SIGMAKALON SERVICES B.V. et al												
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>												
2. This REPORT consists of a total of 5 sheets, including this cover sheet.												
3. This report is also accompanied b												
a. D sent to the applicant and to	a.   sent to the applicant and to the International Bureau) a total of sheets, as follows:											
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).												
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.												
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).												
4. This report contains indications re	lating to the following items	:										
☐ Box No. I Basis of the opi	nio <b>n</b>											
☐ Box No. II Priority												
☐ Box No. III Non-establishm												
☐ Box No. IV Lack of unity of												
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement											
☐ Box No. VI Certain docume												
	☐ Box No. VII Certain defects in the international application											
☐ Box No. VIII Certain observations on the international application												
Date of submission of the demand	Da	te of completion of this	report									
20.10.2004	14	14.02.2005										
Name and mailing address of the internation preliminary examining authority:	al Au	thorized Officer	Specific Paragrap.									
European Patent Office D-80298 Munich	Kc comu d	olitz, R										
Tel. +49 89 2399 - 0 Tx: 5236 Fax: +49 89 2399 - 4465		ephone No. +49 89 23	99-8481									

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

JC09 Rec'd PCT/PT0 23 SEP 2005, International application No. PCT/EP2004/003258

	Вох	No. I	Basis of	he report							
1.	With filed,	regard unless	to the lans s otherwise	guage, this indicated ι	report is based under this item.	on the interr	national app	lication in t	he langı	uage in v	which it was
	\ [ [	which i □ inte □ pub	is the langu rnational solication of t	age of a tra earch (unde he internat	lations from the anslation furnish er Rules 12.3 ar ional application examination (un	ned for the pund 23.1(b)) n (under Rule	rposes of:		languag	ge ,	
2.	have	ith regard to the <b>elements*</b> of the international application, this report is based on (replacement sheets which two been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this port as "originally filed" and are not annexed to this report):									
					•						
	Desc	ription	, Pages								•
	1-31				as originally filed						
	Clain	ns, Nur	mbers			•			•		*
	1-45	,			as originally filed						
		•			•						
	Draw	rings, S	Sheets					•			
	1/1				as originally filed						
		a sequ	ence listing	g and <i>l</i> or any	related table(s	) - see Supp	lemental Bo	x Relating	to Sequ	ence Lis	ting
3.		The ar	nendments	have resul	ted in the cance	ellation of:	•				
			description								
			claims, No drawings,				٠				•
			sequence table(s) re		cify): quence listing (s	specify):					
4.	had i	not be	eport has be en made, s ntal Box (Ru	ince they h	shed as if (some ave been consid	e of) the ame dered to go b	endments ar beyond the o	nexed to the disclosure a	nis repoi as filed,	t and lis as indica	ted below ated in the
		☐ the	description	, pages							
			claims, No drawings,								
	-	☐ the	sequence	listing <i>(spe</i>							
		•	, ,		quence listing (s	•					
	*	If it	em 4 app.	lies, so	me or all of	these sh	eets may	be mark	ed "suj	persed	ed."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes

Yes: Claims 1-45

No: Claims

Inventive step (IS) Yes: Claims 1-45

No: Claims

Industrial applicability (IA) Yes: Claims 1-45

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

PCT/EP2004/003258

#### Re item V:

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability. Article 33 (2) to (4) PCT; citations and explanations supporting such statement

### D1: US2002156224

1. The present invention relates to a **process** for the preparation of polysilylesters comprising structural units of formula (I) as defined in present claim 1 by reacting a polyacid of formula (II) with a polyacyloxysiliyl derivative of formula (III), see claims 1-36. [Present claim 36 refers to the examples and figures which is formally not allowable under Rule 6.2 (a) PCT and therefore it is regarded as if it had not been filed].

Present claims 37 and 44 relate to a **film or coating** comprising a polymer obtainable by such a process and present claim 39 and 41-44 to a **film or coating** composition comprising a polysilylester obtainable by such a process.

Present claims 38 and 40 relate to a **polysilylester** comprising the structural unit of formula (I) as defined in present claim 1.

Present claim 45 relates to an **implantable medical und /or veterinary device** having a coating or comprising a coating composition according to claims 39, 41 and 43.

2. The present application meets the requirements of Article 33 (2) PCT because the subject-matter of claims 1-43 is novel.

None of the documents of the prior art discloses a **process** for the preparation of polysilylesters comprising a structural unit of formula (I) as defined in present claim 1 or a **film or coating** comprising a polymer(polysilylester) obtainable by such a process or a **film or coating** <u>composition</u> comprising it or the polysilylester as such as defined in present claims 37,44 / 39,41-44 / 38 and 40 or an **implantable medical und /or veterinary device** having a coating or comprising a coating composition comprising it as defined in claim 45.

The subject-matter of claims 1-45 is therefore novel.

3. The present application meets also the requirements of Article 33 (3) PCT because the subject-matter of claims 1-45 is inventive.

D1 is considered to represent the closest prior art since it discloses silylester copolymers. The silylester copolymers of D1 do not exhibit structural units of formula (I) as defined in present claim 1 and they are not produced by reacting a polyacid of formula (II) with a polyacyloxysiliyl derivative of formula (III), see present claims 1-36.

The problem underlying the present application may be regarded as to provide a further silylester copolymer for metal free antifouling coatings and a process or the preparation thereof.

No indication is given in the prior art that the specific polysilylesters comprising structural units of formula (I) as defined in present claim 1 or coatings or coating compositions thereof, the specific polysilylesters being obtainable by reacting a polyacid of formula (II) with a polyacyloxysiliyl derivative of formula (III), as defined in claims 1-45 can be used to solve this problem.

Therefore the presence of an inventive step can be acknowledged for the subject-matter of claims 1-45 vis- à- vis the documents of the search report.

4. The present application meets the requirements of Article 33 (4) PCT because the subject-matter of claims 1-45 is also industrially applicable.